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Application Number		10668672			
Filing Date		2003-09-23			
First Named Inventor	Samu	uel I. STUPP et al.			
Art Unit		1656			
Examiner Name	Suza	nne Marie Noakes			
Attorney Docket Numb	er	NANO 105 US2 (NU 22074)			

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Pat of cited Doc	tentee or Applicant ument	Releva	Columns,Lines when int Passages or Rele s Appear	
	1	7371719	B2	2008-05-13	Stupp et al.				
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	1	99/55383	wo	A2	1999-11-04	Cuthbertson et al.			
	2	2004/091370	wo	A2	2004-10-28	Nugent et al.			

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	3	2005/014619	wo		A2	2005-02-1	,	San Antonio et al.		
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Examiner Initials*	Cite No		nal, serial	l, symp	osium,	catalog, et		he article (when appropriate, pages(s), volume-is		Τs
	1	Kleinman. November 19	Ebby, Maura C., Mathias Jucker, Benjamin S. Weeks, Rachael L. Neve, William E. Van Noeitzend, and Hynda K. lenman. November 1993. "\$-Amgkod Precursor Protein Binds to the Neurtle-Promoting IKVAV Site of Laminin."							
	2	Oke, Kazunari, Masaaki Yamemolo, Toshihani Nonaka, and Masamishi Tomonaga. April 1996. "The Significance of Artificial Cerebrospinal Fluid as Perfusate and Endoneurosurgery." Neurosurgery Online. Vol. 38, No. 4, pp. 733-736.								
	3	Rapaport, Hanna, Kristian Kjaer, Torben R. Jensen, Leslie Leiserowitz, and David A. Tirrell. 2000. "Two-Dimensional Criter in Scheel Peptide Monolayers." Journal of the American Chemical Scoety. Vol. 122, No. 50, pp. 12523-12529.								
	4	Avrahami, Dorit and Yechel Stell. 2002. "Conjugation of a Magainin Analogue with Leophilo Adds Controls Hydrophobioty, Solution Assembly, and Cell Selectivity." Blochemistry. Vol. 41, No. 7, pp. 2254-2263.								
	5	Yamada, Masanori, Yuichi Kadoya, Shingo Kasai, Kozue Kato, Mayumi Mochizuki, Norio Nishi, Nobuhisa Watanabe, Hynda K. Kienman, Yoshinkio Yamada, and Moloyoshi Nomizu. 2002. "Tek-Lys-Val-Ma-Val (KVAV)-Containing Laminin ch Chan Peptides Form Anyiol-dae Farias." ETESS Letters. Vol. 500, pp. 48-52.								
	6	McGregor, Clare-Louise, Lu Chen, Neil C. Pomroy, Peter Hwang, Sandy Go, Avyil Chakrabartry, and Gilbert G. Privid. February 2003. **Lipopeptice Detergents Designed for the Structural Study of Membrane Proteins.** Nature Betechnickopy. Vol. 21, pp. 171-176.								
	7	Ohmori, Hideya, Yasumi Activity in Rat Hippocam	tsu Sato, a pai Slices.	and Akry	oshi Na th. Analg	miki. 2004. j. Vol. 99, p	"The p. 10	e Anticonvulsant Action of I 95-1101.	Propofol on Epilephform	
	8							Adenosine A1 Receptor i Neuroscience. Vol. 20, pp		

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9	Sone, Eli D. and Samuel I. Stupp. 2004. "Semiconductor-Encapsulated Peptide-Amphiphile Nanofibers". Journal of the American Chemical Society. Vol. 126, No. 40, pp. 12756-12757.	
10	Smith, L. A. and P. X. Ma. 2004. "Nano-Fibrous Scaffolds for Tissue Engineering." Collods and Surfaces, B: Biomlerfaces, Vol. 39, pp. 125-131.	
11	Tscnchev, Stefan, George C. Schatz, and Mark A. Ratner. 2004. "Electrostatically-Directed Self-Assembly of Cylindrical Pepide Amphiphile Nanositructures." J. Phys. Chem. 8. Vol. 108, No. 26, pp. 8817-8822.	
12	Tscnchev, Stefan, Alessandro Troisi, George C. Schelz, and Mark A. Ratner. 2004. "All-Atom Numerical Studies of Self-Assembly of Zwitterfonic Peptide Amphiphiles." J. Phys. Chem. B. Vol. 108, No. 39, pp. 15278-15284.	
13	Tsonchev, Stefan, Alessandro Trois, George C. Schetz, and Mark A. Rather. 2004. "On the Structure and Stability of Self-Assembled Zwittenonio Peptide Amphiphilles. A Theoretical Study." Nano Letters. Vol. 4, No. 3, pp. 427-431.	
14	Amoid, Michael S., Mustafe O. Guler, Mark C. Hersem, and Semuel I. Shupp. 2005. "Encapsulation of Carbon Nanotubes by Self-Assembling Peptide Amphiphales." Langruur. Vol. 21, No. 10, pp. 4705-4709.	
15	Behanna, Heather A., Jack J. J. M. Donners, Alex C. Gordon, and Samuel I. Shapp. 2005. "Coassembly of Angitightee with Opposet Peptide Polarities into Nanofibers." Journal of the American Chemical Society. Vol. 127, No. 4, pp. 1123-1200.	
16	Bitton, Ront, Judith Schmidt, Markus Biesalski, Raymond Tu, Malthew Tirrell, and Havzzelet Bianco-Peled. 2005. "Self-Assembly of Model DNA-Binding Peplide Amphiphiles." Langmur. Vol. 21, No. 25, pp. 11889-11885.	
17	Bull, Steve R., Mustafa O. Guler, Rafael E. Bras, Palamada N. Venkatasubramanian, Samuel I. Stupp, and Thomas J. Meade. 2005. "Magnetic Resonance Imaging of Self-Assembled Biomaterial Scatfolds." Bioconjugate Chem. Vol. 16, No. 6, pp. 1343-1345.	
18	de Loos, Maaike, Ben L. Feringa, and Jan H. van Esch. 2005. "Design and Application of Self-Assembled Low Molecular Weight Hydrogels." Eur. J. Org. Chem. Pp. 3615-3631.	
 19	Ouler, Mustafa O., Randal C. Claussen, and Samuel I. Stupp. 2005. "Encapsulation of Pyrene Within Self-Assembled Peptide Amphiphile Nanofibers." Journal of Materials Chemistry. Vol. 15, pp. 4507-4512	

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20	Guler, Mustafa O., Jonathan K. Pokorski, Daniel H. Appella, and Samuel I. Supp. 2005. "Enhanced Oligonucleotide Binding to Self-Assembled Nanoffbers." Bioconjugate Chem. Vol. 16, No. 3, pp. 501-503.	
21	Jun, Ho-Wook, Virany Yuwono, Sergey E. Paramonov, and Jeffrey D. Hartgerink. 2005. "Enzyme-Mediated Degradation of Peptide-Amphiphile Nanofiber Networks." Adv. Mater. Vol. 17, pp. 2612-2617.	
22	Silva, Gabriel A. 2005. "Nanotechnology Approaches for the Regeneration and Neuroprotection of the Central Neurous System." Surgical Neurology. Vol. 63, pp. 301-306.	
23	Silva, Gabriel A. 2005. "Small Neuroscience: The Nanostructure of the Central Nervous System and Emerging Nanotechnology Applications." Current Nanoscience. Vol. 1, No. 3, pp. 225-236.	
24	Soils, F. J., S. I. Stupp, and M. Olvera de la Cruz. 2005. "Charge Induced Pattern Formation on Surfaces: Segregation in Cylindrical Micelles of Cationic-Anionic Peptide-Amphiphiles." The Journal of Chemical Physics. Vol. 122, No. 5, 054905-1-054905-9.	
25	Tovar, John D., Randal C. Claussen, and Samuel I. Shupp. 2005. "Probing the interior of Peptide Amphiphile Supramolecular Aggregates." Journal of the American Chemical Society. Vol. 127, No. 20, pp. 7337-7345.	
26	Hosseinkhani, Hossein, Mohsen Hosseinkhani, and Hisatoshi Kobayeshi. July 2006. "Design of Tissue-Engineered Nanoscalfoid Through Self-Assembly of Peptide Amphiphile." Journal of Bioactive and Compatible Polymers. Vol. 21, No. 4, pp. 277-296.	
27	Engler, Adam J., Shamik Sen, H. Lee Sweeney, and Dennis E. Discher. August 25, 2006. "Matrix Elasticity Directs Stem Cell Lineage Specification." Cell. Vol. 126, pp. 677-689.	
28	Brunsveld, L., J. Kuhlmann, and H. Waldmann. 2006. "Symthesis of Palmitoylated Ras-Peptides and -Proteins." Methods. Vol. 40, pp. 151-165.	
29	Eigersma, Ronald C., Tana Meijneke, Remon de Jong, Arwin J. Brouwer, George Poethuma, Dirk T. S. Rijkers, and Rob M. J. Liskamp. 2006. "Synthesis and Structural Investigations of N-alkylated β-peptidosulfonamide-peptide Hybrids of the Anniologenic Amylind-299 Sequence implications of Supramielocalar Folding for the Design of Peptide-Based Bionanomaterials." Organic & Biomolecular Chemistry. Vol. 4, pp. 3587-3597.	
30	Guier, Mustafa O., Lorraine Hsu, Stephen Soukasene, Daniel A. Harrington, James F. Hulvat, and Samuel I. Stupp. 2006. "Presentation of RCIOS Epidopes on Self-Assembled Nanofibers of Branched Peptide Amphiphilles."	

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Date Considered

	31	Harrington, Daniel A., Earl Y. Cheng, Mustafa O. Guler, Leslie K. Lee, Jena L. Donovan, Randal C. Claussen, and Samuel J. Stupp. 2006. Transcher Deptide Ampliphiles as Self-Ascentishing Coolings for Tissue Engineering Scilibids. 3-Journal of Bornactical Materials Research Part A. Pp. 137-147.						
	32	Hosseinkhani, Hossein, Mohsen Hosseinkhani, Alli Khademhosseinit, Hisatoshi Kobayashi, and Yasuhiko Tabata 2006: "Enhanced Angugenesia Through Controlled Release of Base Effectives Growth Factor from Peptide Amphyrite fo						
	33	Mardiovich, Anastasia, Jennifer A. Craig, Matthew Q. McCammon, Ashish Garg, and Efrosini Kökkoli. 2006. "Design of a Novel Florenectin-Mimetic Peptide-Amphiphile for Functionalized Biometerials." Langmur. Vol. 22, No. 7, pp. 3259-3264.						
	34	Paramonov, Sergey E., Ho-Wook Jun, and Jeffrey D. Hartgerink. 2006. "Self-Assembly of Peptide-Amphiphile Nanofibers: The Roles of Hydrogen Bonding and Amphiphilic Packing." Journal of the Amenican Chemical Society. Vol. 128, No. 22, pp. 729-17298.						
	35	Rajangam, Kanya, Heather A. Behanne, Michael J. Hui, Xiaoqiang Han, James F. Huivat, Jon W. Lomasney, and Samuel I. Slupp. 2006. "Heparin Binding Nanostructures to Promote Growth of Blood Vessels." Nano Letters. Vol. 6, No. 9, pp. 2086-2090.						
	36	Reches, Meital and Ehud Gazit. 2006. "Molecular Self-Assembly of Peptide Nanostructures: Mechanism of Association and Potential Uses." Current Nanoscience. Vol. 2, No. 2, pp. 105-111.						
	37	Stendahl, John C., Mukil S. Rao, Mustafa O. Guler, and Samuel I. Stupp. 2006. "Infermolecular Forces in the Self- Assembly of Peptide Amphiphale Narrolibers." Advanced Functional Materials. Vol. 16, pp. 499-568.						
	38	Behanna, Heather A., Kanya Rajangam, and Samuel I. Stupp. 2007. "Modulation of Fluorescence Through Cossentily of Molecules in Organic Nanositructures." Journal of the American Chemical Society. Vol. 129, No. 2, pp. 321-327.						
	39	Mejjer, Joris T., Marjoljin Roelers, Valentina Viola, Dennis W. P. M. Lówik, Gert Vriend, and Jan C. M. van Hest. 2007. "Stabilization of Peptide Förris by Hydrophobic Interaction." Langmarr. Vol. 23, No. 4, pp. 2058-2063.						
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